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The influence of meteoric radiant and velocity distribution on the reflection-region characteristics in oblique radar sounding

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Abstract

A study is done of the reflection region in radiometeor oblique sounding. It is shown that the use of the KAMET computer model makes the interpretation of the oblique sounding of meteoric trails more accurate and informative. Within the framework of the uniform and the empirical model of meteoric-material arrival, it is shown that the main factor determining the reflection-region characteristics is the meteor velocity. The significant influence of Ursids on the reflection-region characteristics, detected experimentally, can be explained only in terms of the astronomical model based on the concept of microstreams. © 1998 MAHK Hayka/Interperiodica Publishing.